5-2. Steps to take in an emergency

If a warning light turns on or a warning buzzer sounds...

Calmly perform the following actions if any of the warning lights turn on or flash. If a light turns on or flashes, but then turns off, this does not necessarily indicate a malfunction in the system.

Stop the vehicle immediately. Continuing to drive the vehicle may be dangerous.

The following warning indicates a possible problem in the brake system. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning light	Warning light/Details	
BRAKE (U.S.A.)	Brake system warning light (red indicator) • Low brake fluid	
(Canada)	• Malfunction in the electronically controlled brake system	

Stop the vehicle immediately.

The following warning indicates the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning light	Warning light/Details	
- +	Charging system warning light Indicates a malfunction in the vehicle's charging system.	

Have the vehicle inspected by your Lexus dealer immediately.

Failing to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

Warning light	Warning light/Details
(U.S.A.)	Malfunction indicator lamp Indicates a malfunction in: • The electronic engine control system; • The electronic throttle control system; or • The electronic automatic transmission control system.
*	SRS warning light Indicates a malfunction in: • The SRS airbag system; or • The seat belt pretensioner system.
ABS (U.S.A.) (Canada)	ABS warning light Indicates a malfunction in: • The ABS; or • The brake assist system.
	Brake system warning light (yellow indicator) Indicates a malfunction in: • The electronically controlled brake system; or • The electro-mechanical parking brake system.
⊚ !	Electric power steering system warning light • Indicates a malfunction in the EPS (Electric Power Steering) system.
PCS	Pre-collision system warning light (if equipped) • Indicates a malfunction in the pre-collision system.

■ If the electronic engine control system warning light comes on while driving

First check the followina:

- Is the fuel empty? If it is, fill the fuel tank immediately.
- Is the fuel tank cap loose? If it is, tighten it securely.

The light will go off after taking several driving trips.

If the light does not go off even after several trips, contact your Lexus dealer as soon as possible.

■ Power steering warning light

When the battery is low or when the voltage drops temporarily, the power steering warning light may come on.

A CAUTION

■ When the power steering warning light comes on

The steering wheel may become extremely heavy.

If the steering wheel becomes heavier than usual when operating, firmly hold and operate it using more force than usual.

Have the malfunction repaired immediately.

After taking the specified steps to correct the suspected problem, check that the warning light turns off.

Warning light	Warning light/Details	Correction procedure
4	Open door warning light (warning buzzer)*1 Indicates that a door or the trunk is not fully closed.	Check that all doors and the trunk are closed.

Warning light	Warning light/Details	Correction procedure
In the fuel gauge	Low fuel level warning light Remaining fuel (Approximately 3.4 gal. [13L, 2.8 lmp.gal.] or less)	Refuel the vehicle.
Å	Driver's seat belt reminder light (warning buzzer)*2 Warns the driver to fasten his/her seat belt.	Fasten the seat belt.
PASSENGER	Front passenger's seat belt reminder light (warning buzzer)*2 Warns the front passenger to fasten his/her seat belt.	Fasten the seat belt.
	Tire pressure warning light	
	Indicates low tire pressure.	Adjust the tire pressure.
	When the light stays on after blinking for 1 minute: Indicates a malfunction in the tire pressure warning system.	Have the system checked by your Lexus dealer.
<u> </u>	Master warning light A buzzer sounds and the warning light comes on or flashes to indicate that the master warning system has detected a malfunction.	→P. 577

*1:Open door warning buzzer:

The open door warning buzzer sounds to alert one or more of the doors is not fully closed (with the vehicle having reached a speed of 3 mph [5 km/h]).

*2:Driver's and front passenger's seat belt reminders:

The driver's and front passenger's seat belt reminders sound to alert the driver and front passenger that his or her sear belt is not fastened. The buzzer sounds intermittently for 10 seconds after the vehicle has reached a speed of at least 12 mph (20 km/h). Then, if the seat belt is still unfastened, the buzzer will sound in a different tone for 20 more seconds.

Front passenger detection sensor and passenger seat belt reminder

- If luggage is placed on the front passenger seat, the front passenger detection sensor may cause the warning light to flash, even if a passenger is not sitting in the seat.
- If a cushion is placed on the seat, the sensor may not detect a passenger, and the warning light may not operate properly.

■ Tire pressure warning light

At the same time that the tire pressure warning light comes on, the tire pressure values appear on the multi-information display.

■ If the tire pressure warning system is inoperative

The tire pressure warning system may become inoperative in the following conditions:

(When the condition becomes normal, the system will work properly.)

- If tires not equipped with tire pressure warning valves and transmitters are used.
- If the ID code on the tire pressure warning valves and transmitters is not registered.
- If electronic devices or facilities using similar radio wave frequencies are nearby.
- If a large metallic object which can interfere with signal reception is put in the trunk.
- If a radio set at similar frequencies is in use in the vehicle.
- If a window tint that affects the radio wave signals is installed.
- If there is a lot of snow or ice on the vehicle, in particular around the wheels or wheel housings.
- If non-genuine Lexus wheels are used.
- If tire chains are used.
- If the spare tire is in a location subject to poor radio wave signal reception.
- If the tire inflation pressure is 73 psi (500 kPa, 5.1 kgf/cm² or bar) or higher.

\blacksquare If the tire pressure warning light comes on after blinking for 1 minute frequently

If the tire pressure warning light comes on after blinking for 1 minute frequently when the engine switch is turned to IG-ON mode, have it checked by your Lexus dealer.

Even if you use genuine wheels, the tire pressure warning system may not work properly with some types of tires.

Pushing the tire pressure reset switch should not turn off the tire pressure warning light.

■ Customization

The vehicle speed linked seat belt reminder buzzer can be disabled. $(\rightarrow P. 627)$



A CAUTION

■ Maintenance of the tires

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label (tire and load information label). (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label [tire and load information label], you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS-tire pressure warning system) that illuminates a low tire pressure telltale (tire pressure warning light) when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale (low tire pressure warning light) illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly underinflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS (tire pressure warning system) is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale (tire pressure warning light).



∧ NOTICE

■ Precaution when installing a different tire

When a tire of a different specification or maker is installed, the tire pressure warning system may not operate properly.

5

If a warning message is displayed

The multi-information display shows warnings of system malfunctions, incorrectly performed operations, or shows messages that indicate a need for maintenance. When a message is shown, perform the correction procedure appropriate to the message.



- Master warning light
 - The master warning light comes on or flashes when a message is being shown on the multi-information display.
- Multi-information display

If any of the warning messages is shown again after its correction procedure has been performed, contact your Lexus dealer.

Messages and warnings

The warning lights and warning buzzers operate as follows depending on the content of the message. If a message indicates the need for inspection by a dealer, have the vehicle inspected by your Lexus dealer immediately.

A	System warning light	Warning buzzer*	Warning
Comes on	_	Sounds	Indicates an important situation, such as when a system related to driving is malfunctioning or that danger may result if the correction procedure is not performed.
_	Comes on or flashes	Sounds	Indicates an important situation, such as when the system shown on the multi-information display may be malfunctioning.
Flashes	_	Sounds	Indicates a situation, such as when damage to the vehicle or danger may result.
Comes on	_	Does not sound	Indicates a condition, such as mal- function of electrical components, their condition, or indicates the need for maintenance.
Flashes	_	Does not sound	Indicates a situation, such as when an operation has been performed incorrectly, or indicates how to perform an operation correctly.

^{*}A buzzer sounds first time a message is shown on the multi-information display.

■ System warning lights

The master warning light does not come on or flash when a message indicates the following. Instead, a separate system warning light will come on or flash along with the message shown on the multi-information display.

- Malfunction of the AFS (Adaptive Front Lighting System)
 The AFS OFF indicator light flashes. (→P. 139)
- ullet Malfunction of the brake system The brake system warning light (red indicator) comes on. (\rightarrow P. 570)
- Malfunction of the electronically controlled brake system or electro-mechanical parking brake
 The brake system warning light (yellow indicator) comes on. (→P. 571)
- Malfunction of the ABS The ABS warning light comes on. (→P. 571)
- Malfunction of the charging system
 The charging system warning light comes on. (→P. 570)
- ◆ High engine coolant temperature
 The needle of the engine coolant temperature gauge enters the red zone.
 (→P. 127)

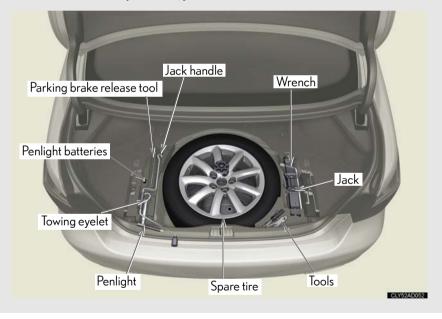
■ When "Electrical equipment operation is limited" is shown

This message indicates that the battery is low. When the message is shown, operation of electrical equipment that uses a large amount of electric power, such as the air conditioning system, may be limited temporarily. This does not indicate a malfunction. Operation of electrical equipment will be restored after the battery is charged.

5-2. Steps to take in an emergency If you have a flat tire

Remove the flat tire and replace it with the spare provided.

- Before jacking up the vehicle
 - Stop the vehicle on a hard, flat surface.
 - Set the parking brake.
 - Shift the shift lever to P.
 - Stop the engine.
 - Turn on the emergency flashers.
- Location of the spare tire, jack and tools



Penlight

The vehicle is equipped with a penlight, located inside the trunk. The penlight is provided in case it is necessary to perform an unexpected service operation at night, such as installation of the spare tire.



- 11 Turn the top portion to remove it.
- Insert batteries.
- Install the top portion.
- **4** ON/OFF

Taking out the jack and spare tire



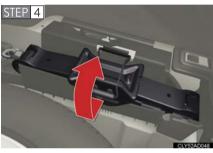
Lift up the hook of the panel on the trunk floor.



Secure the panel using the hook provided.



Remove the tool tray.



Remove the hook.



Loosen the center fastener that secures the spare tire.

If the center fastener cannot be turned by hand, use the wrench that is stored in the trunk.

Replacing a flat tire

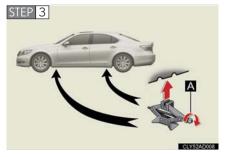


Chock the tires.

Flat tire		Wheel chock positions
Front	Left- hand side	Behind the rear right- hand side tire
	Right- hand side	Behind the rear left- hand side tire
Rear	Left- hand side	In front of the front right-hand side tire
Neul	Right- hand side	In front of the front left- hand side tire



Slightly loosen the wheel nuts (one turn).



Turn the tire jack portion "A" by hand until the notch of the jack is in contact with the jack point.



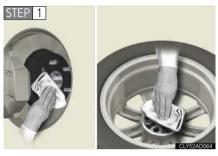
Raise the vehicle until the tire is slightly raised off the ground.



Remove all the wheel nuts and the tire.

When resting the tire on the ground, place the tire so that the wheel design faces up to avoid scratching the wheel surface.

Installing the spare tire



Remove any dirt or foreign matter from the wheel contact surface.

If foreign matter is on the wheel contact surface, the wheel nuts may loosen while the vehicle is in motion, and the tire may come off the vehicle

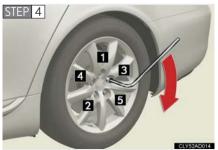


Install the spare tire and loosely tighten each wheel nut by hand to approximately the same amount.

Turn the lug nuts until the washers come into contact with the wheel.



Lower the vehicle.



Firmly tighten each nut two or three times in the order shown in the illustration.

Tightening torque: 103.3 ft*lbf (140 N*m, 14.3 kgf*m)

STEP 5 Stow the flat tire, tire jack and all tools.

A CAUTION

■Using the tire jack

Improper use of the tire jack may lead to death or injuries due to the vehicle suddenly falling off the jack.

- Do not use the tire jack for any purpose other than replacing tires or installing and removing tire chains.
- Only use the tire jack that comes with this vehicle for replacing a flat tire.
 Do not use it on other vehicles, and do not use other tire jacks for replacing tires on this vehicle.
- Always check that the tire jack is securely set to the jack point.
- Do not put any part of your body under the vehicle supported by a jack.
- Do not start or run the engine while your vehicle is supported by the jack.
- Do not raise the vehicle while someone is in it.
- When raising the vehicle, do not put an object on or under the jack.
- Do not raise the vehicle to a height greater than that required to replace the tire.
- Use a jack stand if it is necessary to get under the vehicle.
- Vehicles with electronically modulated air suspension: Be sure to turn off the height control and stop the engine.

Take particular care when lowering the vehicle to ensure that no one working on or near the vehicle may be injured.

■ Replacing a flat tire

Observe the following precautions to reduce the risk of death or serious injury.

- Never use oil or grease on the wheel bolts or wheel nuts.
 The oil or grease can cause the wheel nuts to loosen, causing a serious accident.
 Remove any oil or grease on the wheel bolts or wheel nuts.
- Have the wheel nuts tightened with a torque wrench to 103.3 ft•lbf (140 N•m, 14.3 kgf•m) as soon as possible after changing wheels.
 Failure to follow these precautions could cause the nuts to loosen and the wheels may fall off, which could lead to an accident causing death or serious injury.



■ Do not drive the vehicle with a flat tire.

Do not continue driving with a flat tire.

Driving even a short distance with a flat tire can damage the tire and the wheel beyond repair.

5-2. Steps to take in an emergency If the engine will not start

If the engine will not start, even though correct starting procedures are being followed (\rightarrow P. 115), consider each of the following points.

■ The engine will not start even when the starter motor operates normally.

One of the following may be the cause of the problem.

- There may not be sufficient fuel in the vehicle's tank.
 Refuel the vehicle.
- The engine may be flooded. Try to restart the engine once more following correct starting procedures. (→P. 115)
- There may be a malfunction in the engine immobilizer system. $(\rightarrow P. 64)$
- The starter motor turns over slowly, the interior lights and headlights are dim, or the horn does not sound or sounds at a low volume.

One of the following may be the cause of the problem.

- ullet The battery may be discharged. (\rightarrow P. 597)
- The battery terminal connections may be loose or corroded.
- The starter motor does not turn over.

The following may be the cause of the problem.

• The engine starting system may be malfunctioning due to an electrical problem such as an open circuit or a blown fuse. However, a interim measure is available to start the engine. (→P. 589)

■ The starter motor does not turn over, the interior lights and headlights do not turn on, or the horn does not sound.

One of the following may be the cause of the problem.

- One or both of the battery terminals may be disconnected.
- \bullet The battery may be discharged. (\rightarrow P. 597)
- There may be a malfunction in the steering lock system.

Contact your Lexus dealer if the problem cannot be repaired, or if repair procedures are unknown.

Emergency start function

When the engine does not start, the following steps can be used as an interim measure to start the engine if the engine switch is functioning normally.

- STEP 1 Set the parking brake.
- STEP 2 Put the shift lever in P.
- STEP 3 Set the engine switch to ACC mode.
- Push and hold the engine switch about 15 seconds while depressing the brake pedal firmly.

Even if the engine can be started using the above steps, the system may be malfunctioning. Have the vehicle checked by your Lexus dealer.

If the shift lever cannot be shifted from P

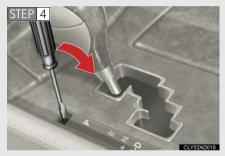
If the shift lever cannot be shifted with your foot on the brake, there may be a problem with the shift lock system (a system to prevent accidental operation of the shift lever). Have the vehicle inspected by your Lexus dealer immediately.

The following steps may be used as an emergency measure to ensure that the shift lever can be shifted.

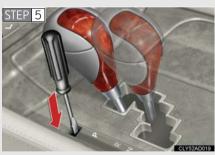
STEP 1 Set the parking brake.

STEP 2 Turn the engine switch to the ACC mode.

STEP 3 Depress the brake pedal.



Pry the cover up with a flathead screwdriver or equivalent.



Press the shift lock override button.

The shift lever can be shifted while the button is pressed.

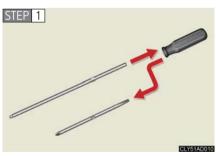
In the event that the battery is discharged or switch operation does not release the parking brake, the parking brake can be released manually using the procedure below. This procedure should be performed only if necessary, such as in an emergency.

If the switch cannot be operated even when the battery is normal, the parking brake system may be malfunctioning. Have the vehicle inspected by your Lexus dealer immediately.

■ Before releasing the parking brake manually

- Shift the shift lever to P.
- Turn the engine switch OFF.
- Check that the parking brake indicator is off.
- Chock the tires.

Releasing the parking brake manually



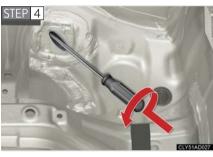
Take out the parking brake release tool from the trunk. $(\rightarrow P. 580)$

Install the parking brake release tool into the screwdriver handle.

STEP 2 Take out the spare tire. $(\rightarrow P.580)$



Remove the plug.



Insert the tool and press it down firmly while turning it counter-clockwise until it stops.

\blacksquare Manual operation of the parking brake

The parking brake cannot be set manually.

A CAUTION

■ When releasing the parking brake manually

- Shift the shift lever to P, turn the engine switch OFF and chock the tires. Failure to do so may cause the vehicle to move, resulting in an accident.
- Turn the engine switch OFF and check that the parking brake indicator is off. Failure to do so may cause the system to operate and turn the parking brake release tool that is inserted, resulting in an injury.

5-2. Steps to take in an emergency If you lose your keys

New genuine Lexus keys can be made by your Lexus dealer using one of the other keys or the key number stamped on your key number plate.

If the electronic key does not operate properly

If communication between the electronic key and vehicle is interrupted $(\rightarrow P.~10)$ or the electronic key cannot be used because the battery is depleted, the smart access system with push-button start and wireless remote control cannot be used. In such cases, the doors and trunk can be opened or the engine can be started by following the procedure below.

Locking and unlocking the doors, unlocking the trunk and key linked functions





▶ Doors

Remove the cover on the driver's door handle using the mechanical key in order to perform the following operations.

- Locks all doors
- Closes the windows/moon roof (turn and hold)
- Unlocks the door

Turning the key rearward unlocks the driver's door. Turning the key once again unlocks the other doors.

Opens the windows/moon roof (turn and hold)

Return the cover to the original position after use.



► Trunk

Turn the mechanical key clockwise to open.

Starting the engine

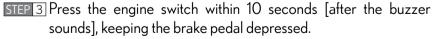
STEP 1 Put the shift lever in P and apply the brakes.



CIT (SADO)

Touch the Lexus emblem side of the electronic key to the engine switch.

An alarm will sound to indicate that the start function cannot detect the electronic key that is touched to the engine switch if any of the doors is opened and closed while the key is touched to the switch.



In the event that the engine still cannot be started, contact your Lexus dealer.

■ Replacing the key battery

As this procedure is the temporary measure, it is recommended that the electronic battery be replaced immediately. $(\rightarrow P. 528)$

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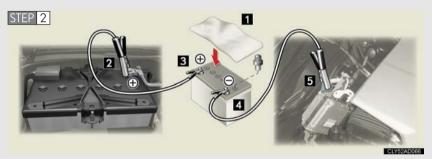
If the vehicle battery is discharged

The following procedures may be used to start the engine if the vehicle's battery is discharged.

You can call your Lexus dealer, Roadside Assistance or Lexus Customer Service Assistance.

If you have a set of jumper (or booster) cables and a second vehicle with a 12-volt battery, you can jump start your Lexus following the steps below.

Remove the engine compartment covers and battery cover. $(\rightarrow P. 496)$



Connect the jumper cables.

- If required, remove all vent plugs from the booster battery. Lay a cloth over the open vents on the booster battery. (This helps reduce the explosion hazard, personal injuries and burns.)
- Positive (+) battery terminal on your vehicle
- Positive (+) battery terminal on the second vehicle
- A Negative (-) battery terminal on the second vehicle
- **5** Connect the jumper cable to ground on your vehicle as shown in the illustration.
- Start the engine of the second vehicle. Increase the engine speed slightly and maintain that level for approximately 5 minutes to recharge the battery of your vehicle.
- STEP 4 Open and close any of the doors with the engine switch OFF.

- Maintain the engine speed of the second vehicle and turn the ignition switch to IG-ON mode, then start the vehicle's engine.
- Once the vehicle's engine has started, remove the jumper cables in the exact reverse order in which they were connected.

Once the engine starts, have the vehicle checked at your Lexus dealer as soon as possible.

■ Avoiding a discharged battery

- Turn off the headlights and the audio system while the engine is turned off.
- Turn off any unnecessary electrical components when the vehicle is running at a low speed for an extended period, such as in heavy traffic, etc.

■ When the battery is removed or discharged

The tire pressure warning system must be initialized. $(\rightarrow P. 512)$

A CAUTION

Avoiding battery fires or explosions

Observe the following precautions to prevent accidentally igniting the flammable gas that may be emitted from the battery.

- Make sure the jumper cable is connected to the correct terminal and that it is not unintentionally in contact with any part other than the intended terminal.
- Do not allow the jumper cables to come into contact with the "+" and "-" terminals.
- Do not allow open flame or use matches, cigarette lighters or smoke near the battery.

CAUTION

■ Battery precautions

The battery contains poisonous and corrosive acidic electrolyte, while related parts contain lead and lead compounds. Observe the following precautions when handling the battery.

- When working with the battery, always wear safety glasses and take care not to allow any battery fluids (acid) to come into contact with skin, clothing or the vehicle body.
- Do not lean over the battery
- In the event that battery fluid comes into contact with the skin or eyes, immediately wash the affected area with water and seek medical attention. Place a wet sponge or cloth over the affected area until medical attention can be received.
- Always wash your hands after handling the battery support, terminals, and other battery-related parts.
- Do not allow children near the battery.



∧ NOTICE

■ To prevent damaging the vehicle

Do not pull- or push-start the vehicle, because the three-way catalytic converter may overheat and cause a fire hazard.

■ When handling jumper cables

Be careful that the jumper cables do not become tangled in the cooling fan or any of the belts when connecting or disconnecting them.

5-2. Steps to take in an emergency If your vehicle overheats

If your engine overheats:

STEP 1 Stop the vehicle in a safe place and turn off the automatic air conditioning system.

STEP 2 Check to see if steam is coming out from under the hood.

If you see steam:

Stop the engine and carefully lift the hood.

If you do not see steam:

Leave the engine running and carefully lift the hood.

STEP 3 Remove the engine compartment cover. $(\rightarrow P. 496)$

STEP 4 Check to see if the cooling fan is operating.

If the fan is operating:

Wait until the temperature of the engine (shown on the instrument cluster) begins to fall and then stop the engine.

If the fan is not operating:

Stop the engine immediately and call your local Lexus dealer.



After the engine has cooled down sufficiently, check the engine coolant level and inspect the radiator core (radiator) for any leaks.



Add engine coolant if required.

Water can be used in an emergency measure if engine coolant is unavailable. $(\rightarrow P. 610)$

Have the vehicle checked at your nearest Lexus dealer as soon as possible.

■ Overheating

If you observe the following, your vehicle may be overheating.

- The engine coolant temperature gauge enters the red zone or a loss of power is experienced.
- Steam is coming from under the hood.

A CAUTION

- To prevent an accident or injury when inspecting under the hood of your vehicle
 - Keep hands and clothing away from the fan and other belts while the engine is runnina.
 - Do not loosen the coolant reservoir cap while the engine and radiator are hot. Serious injury, such as burns, may result from hot coolant and steam released under pressure.



∧ NOTICE

■ When adding engine coolant

Wait until the engine has cooled down before adding engine coolant.

When adding coolant, do so slowly. Adding cool coolant to a hot engine too guickly can cause damage to the engine.

Carry out the following procedures if the tires spin or the vehicle becomes stuck in mud. dirt. or snow.

- STEP 1 Stop the engine. Set the parking brake and put the selector lever in P.
- STEP 2 Remove the mud, snow, or sand from around the stuck tire.
- Place wood, stones or some other material to help provide traction under the tires.
- STEP 4 Restart the engine.
- STEP 5 Shift the shift lever to the D or R position and carefully apply the accelerator to free the vehicle.

Turn off TRAC/VSC if these functions are hampering your attempts to free the vehicle. $(\rightarrow P. 175)$

A CAUTION

■ When attempting to free a stuck vehicle

If you choose to rock the vehicle back and forth to free it, make sure the surrounding area is clear, to avoid striking other vehicles, objects or persons. The vehicle may also lunge forward or lunge back suddenly as it becomes free. Use extreme caution.

■ When shifting the shift lever

Be careful not to shift the shift lever with the accelerator pedal depressed. This may lead to unexpected rapid acceleration of the vehicle that may cause an accident and result in death or serious injury.

<u></u> NOTICE

■ To avoid damaging the transmission and other components

- Avoid spinning the wheels and do not rev the engine.
- If the vehicle remains stuck after trying these procedures, the vehicle may require towing to be freed.

